

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	5678	(257/94,95,622,623,98).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/15 12:16
L2	1456	257/94,95,622,623,98.ccls. and via	US-PGPUB; USPAT; EPO; JPO	AND	OFF	2006/05/15 12:17
L5	409	257/e33.005.ccls.	US-PGPUB; USPAT; EPO; JPO	AND	OFF	2006/05/15 12:17
S1	0	"20040130002".pn.	USPAT; EPO; JPO	OR	OFF	2005/03/09 17:35
S2	1	"20040130002".pn.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/03/09 18:58
S3	1	("6611002").PN.	USPAT; EPO; JPO	OR	OFF	2005/03/09 18:59
S4	28	("4985742"   "5192987"   "5296395"   "5389571"   "5393993"   "5438212"   "5523589"   "5739554"   "5760426"   "5838706"   "5864171"   "5874747"   "5905275"   "5928421"   "6045626"   "6051849"   "6060730"   "6064082"   "6121121"   "6121634"   "6153010"   "6177688"   "6201262"   "6239033"   "6255198"   "6261929"   "6265289"   "6355497").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/09 18:59
S5	28	("4985742"   "5192987"   "5296395"   "5389571"   "5393993"   "5438212"   "5523589"   "5739554"   "5760426"   "5838706"   "5864171"   "5874747"   "5905275"   "5928421"   "6045626"   "6051849"   "6060730"   "6064082"   "6121121"   "6121634"   "6153010"   "6177688"   "6201262"   "6239033"   "6255198"   "6261929"   "6265289"   "6355497").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/09 19:08
S6	47	257/94,95.ccls. and gate and source and drain	USPAT; EPO; JPO	OR	OFF	2005/03/09 19:22
S7	387	257/622,623.ccls. and gate and source and drain	USPAT; EPO; JPO	OR	OFF	2005/03/09 19:23
S8	47	257/622,623.ccls. and gate and source and drain and gallium	USPAT; EPO; JPO	OR	OFF	2005/03/09 19:23

## EAST Search History

S9	3	("4538165"   "4593300"   "4688061").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/09 19:27
S10	14	("4821093").URPN.	USPAT	OR	OFF	2005/03/09 19:27
S11	10	("3609477"   "4040168"   "4183033"   "4498093"   "4503709"   "4635343"   "4658279"   "4733283"   "4821093"   "5037782").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/09 19:28
S12	6	("5252842").URPN.	USPAT	OR	OFF	2005/03/09 19:28
S13	6	("4707726"   "4733195"   "4751562"   "4794093"   "4800420"   "4807022").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/09 19:30
S14	17	("5037782").URPN.	USPAT	OR	OFF	2005/03/09 19:30
S15	8	("3492861"   "3614678"   "3758830"   "4025942"   "4053916"   "4065971"   "4191057").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/09 19:34
S16	13	("4658279").URPN.	USPAT	OR	OFF	2005/03/10 10:07
S17	1	("4821093").PN.	USPAT; EPO; JPO	OR	OFF	2005/03/10 10:09
S18	1	("5252842").PN.	USPAT; EPO; JPO	OR	OFF	2005/03/10 10:20
S19	1	("4537654").PN.	USPAT; EPO; JPO	OR	OFF	2005/03/10 10:22
S20	304	(257/95).CCLS.	USPAT; EPO; JPO	OR	OFF	2005/03/10 11:55
S21	2	("5861636"   "6040590").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/10 10:29
S22	1	("6218701").URPN.	USPAT	OR	OFF	2005/03/10 10:31
S23	4	("3936855"   "4053914"   "4184170"   "4447822").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/10 10:35
S24	10	("4706101").URPN.	USPAT	OR	OFF	2005/03/10 10:35
S25	9	("3462605"   "3691476"   "3699407"   "3813587"   "3821775"   "3900863"   "3996492").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/10 10:37
S26	13	("4053914").URPN.	USPAT	OR	OFF	2005/03/10 10:37
S27	9	("4038580"   "4053914"   "5477063"   "5488235"   "5834325"   "5861636"   "5909051"   "6246078"   "6277665").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/10 10:40
S28	8	("5278433"   "5281830"   "5369289"   "5408120"   "5432808"   "5496766"   "5578839"   "5665986").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/10 10:53

## EAST Search History

S29	6	("5834325").URPN.	USPAT	OR	OFF	2005/03/10 10:53
S30	12	("4990972"   "5034954"   "5038356"   "5387316"   "5587593"   "5767581"   "5834325"   "5838029"   "5852322"   "5862167"   "5923058"   "6008138").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/10 10:58
S31	0	("6593159").URPN.	USPAT	OR	OFF	2005/03/10 10:58
S32	5	("5146465"   "5226053"   "5247533"   "5369289"   "5493577").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/10 11:02
S33	23	("5862167").URPN.	USPAT	OR	OFF	2005/03/10 11:02
S34	7	("20010035580"   "20020017653"   "5554877"   "5862167"   "5905275"   "6172382"   "6201265").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/10 11:11
S35	3	("4396929"   "4408217"   "4608581").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/10 11:13
S36	13	("5905275").URPN.	USPAT	OR	OFF	2005/03/10 11:13
S37	16	("4445132"   "4447822"   "4553154"   "4875088"   "5181220"   "5281830"   "5483105"   "5554877"   "5571391"   "5587609"   "5652438"   "5701035"   "5798537"   "5862167"   "5864171"   "5905275").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/10 11:26
S38	8	("3283207"   "3667117"   "3774021"   "3780357"   "3813587"   "3876900"   "3936855").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/10 11:32
S39	7	("4038580").URPN.	USPAT	OR	OFF	2005/03/10 11:32
S40	25	("3332137"   "3671338"   "3841928"   "3878008"   "3914136"   "3959037"   "3959038"   "3971860"   "3972750"   "3981023"   "4038580"   "4051507"   "4180422"   "4257061"   "4277793"   "4374390"   "4400869"   "4521798"   "4528418"   "4543266"   "4613891"   "4672221"   "4691244").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/10 11:33
S41	12	("4782028").URPN.	USPAT	OR	OFF	2005/03/10 11:33
S42	9	("3478213"   "3672992"   "3762968"   "3862859"   "3901744"   "3901745"   "3914136").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/10 11:35
S43	13	("3959037").URPN.	USPAT	OR	OFF	2005/03/10 11:36
S44	5	("3677836"   "3752713"   "3833435").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/10 11:38

## EAST Search History

S45	19	("3936855").URPN.	USPAT	OR	OFF	2005/03/10 11:38
S46	79	gaasp with gan	USPAT; EPO; JPO	OR	OFF	2005/03/10 13:06
S47	9	"4038580"	USPAT; EPO; JPO	OR	OFF	2005/03/10 12:04
S48	3	gaasp with gan with transparent	USPAT; EPO; JPO	OR	OFF	2005/03/10 13:12
S49	265	gan with transparent	USPAT; EPO; JPO	OR	OFF	2005/03/10 13:12
S50	255	(gan with transparent) and light	USPAT; EPO; JPO	OR	OFF	2005/03/10 13:38
S51	31	(gan with transparent) and light and reflect	USPAT; EPO; JPO	OR	OFF	2005/03/10 13:16
S52	13	(gallium adj nitride with transparent) and light and reflect	USPAT; EPO; JPO	OR	OFF	2005/03/10 13:18
S53	1	("6350988").PN.	USPAT; EPO; JPO	OR	OFF	2005/03/10 13:21
S54	0	("11317546.pn.").PN.	USPAT; EPO; JPO	OR	OFF	2005/03/10 13:22
S55	0	("11317546.pn.").PN.	USPAT; EPO; JPO	OR	OFF	2005/03/10 13:22
S56	0	("11317546.pn.").PN.	USPAT; EPO; JPO	OR	OFF	2005/03/10 13:22
S57	2	("4038580").PN.	USPAT; EPO; JPO	OR	OFF	2005/03/10 14:12
S58	1	("6069394").PN.	USPAT; EPO; JPO	OR	OFF	2005/03/10 14:34
S59	1	("5192987").PN.	USPAT; EPO; JPO	OR	OFF	2005/03/10 14:35
S60	1	("5296395").PN.	USPAT; EPO; JPO	OR	OFF	2005/03/10 14:35
S61	1	("5389571").PN.	USPAT; EPO; JPO	OR	OFF	2005/03/10 14:36
S62	1	("5393993").PN.	USPAT; EPO; JPO	OR	OFF	2005/03/10 14:36
S63	1	("5438212").PN.	USPAT; EPO; JPO	OR	OFF	2005/03/10 14:37
S64	1	("5523589").PN.	USPAT; EPO; JPO	OR	OFF	2005/03/10 14:37
S65	1	("5739554").PN.	USPAT; EPO; JPO	OR	OFF	2005/03/10 14:38
S66	1	("5760426").PN.	USPAT; EPO; JPO	OR	OFF	2005/03/10 14:39

## EAST Search History

S67	1	("5838706").PN.	USPAT; EPO; JPO	OR	OFF	2005/03/10 14:39
S68	1	("5864171").PN.	USPAT; EPO; JPO	OR	OFF	2005/03/10 14:39
S69	1	("5874747").PN.	USPAT; EPO; JPO	OR	OFF	2005/03/10 14:40
S70	1	("5928421").PN.	USPAT; EPO; JPO	OR	OFF	2005/03/10 14:40
S71	1	("6045626").PN.	USPAT; EPO; JPO	OR	OFF	2005/03/10 14:40
S72	1	("6051849").PN.	USPAT; EPO; JPO	OR	OFF	2005/03/10 14:40
S73	1	("6121121").PN.	USPAT; EPO; JPO	OR	OFF	2005/03/10 15:37
S74	0	("(transitionadjlayer)andsemiconduc tor").PN.	USPAT; EPO; JPO	OR	OFF	2005/03/10 15:37
S75	541	(transition adj layer) and semiconductor	USPAT; EPO; JPO	OR	OFF	2005/03/10 15:37
S76	257	(transition adj layer) and semiconductor and light	USPAT; EPO; JPO	OR	OFF	2005/03/10 15:39
S77	7	(graded adj transition adj layer) and semiconductor and light	USPAT; EPO; JPO	OR	OFF	2005/03/10 15:39
S78	2	"2949498".PN.	USPAT; USOCR	OR	OFF	2005/03/10 15:41
S79	15	("4582952").URPN.	USPAT	OR	OFF	2005/03/10 15:41
S80	2	("3990101"   "4582952").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/03/10 15:42
S81	9	("5437734").URPN.	USPAT	OR	OFF	2005/03/10 15:44
S82	4548	(transition with (region or layer)) and semiconductor and light	USPAT	OR	OFF	2005/03/10 15:44
S83	957	(transition adj (region or layer)) and semiconductor and light	USPAT	OR	OFF	2005/03/10 16:03
S84	1	multiple adj transition adj layer	USPAT	OR	OFF	2005/03/10 16:03
S85	0	multiple adj transition adj region	USPAT	OR	OFF	2005/03/10 16:03
S86	0	plural adj transition adj region	USPAT	OR	OFF	2005/03/10 16:03
S87	0	plural adj transition adj layer	USPAT	OR	OFF	2005/03/10 16:03
S88	9	(transition adj layer).ti.	USPAT	OR	OFF	2005/03/10 16:04
S89	41	("3696262").URPN.	USPAT	OR	OFF	2005/03/10 16:19
S90	6	"6069394"	USPAT	OR	OFF	2005/03/10 16:25
S91	14	257/95.ccls. and alloy with contact	USPAT	OR	OFF	2005/03/10 16:26

## EAST Search History

S92	1	("6657237").PN.	USPAT; EPO; JPO	OR	OFF	2005/03/10 16:44
S93	1360	algan with gan	USPAT; EPO; JPO	OR	OFF	2005/03/10 16:45
S94	1090	(algan with gan) and light	USPAT; EPO; JPO	OR	OFF	2005/03/10 16:45
S95	1061	(algan with gan) and light and semiconductor	USPAT; EPO; JPO	OR	OFF	2005/03/10 16:55
S96	164	((algan with surface) with (gan)) and light and semiconductor	USPAT; EPO; JPO	OR	OFF	2005/03/10 16:57
S97	1	("6653663").PN.	USPAT; EPO; JPO	OR	OFF	2005/03/10 17:02
S98	8103	cladding adj layer	USPAT; EPO; JPO	OR	OFF	2005/03/10 17:02
S99	51	(cladding adj layer).ti.	USPAT; EPO; JPO	OR	OFF	2005/03/10 17:08
S10 0	0	(cladding adj layer).ti. and (cladding adj layer) with purpose	USPAT; EPO; JPO	OR	OFF	2005/03/10 17:08
S10 1	134	(cladding adj layer) with purpose	USPAT; EPO; JPO	OR	OFF	2005/03/11 06:43
S10 2	1	("6710372").PN.	USPAT; EPO; JPO	OR	OFF	2005/03/11 06:43
S10 3	1	("5252842").PN.	USPAT; EPO; JPO	OR	OFF	2005/08/04 15:49
S10 4	1	("6069394").PN.	USPAT; EPO; JPO	OR	OFF	2005/08/04 15:49
S10 5	6	("5034954"   "5038356"   "5587593"   "5767581"   "5838029"   "5852322").PN.	US-PGPUB; USPAT; USOCR	AND	OFF	2005/08/04 15:50
S10 6	1	("4675876").PN.	US-PGPUB; USPAT; USOCR	AND	OFF	2005/08/04 15:52
S10 7	6	("5034954").URPN.	USPAT	AND	OFF	2005/08/04 15:53
S10 8	1	("6239033").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/08/04 15:53
S10 9	5	("5607718"   "5626715"   "5861055"   "5932486"   "5985687").PN.	US-PGPUB; USPAT; USOCR	AND	OFF	2005/08/04 15:55
S11 0	8	("6239033").URPN.	USPAT	AND	OFF	2005/08/04 15:55
S11 1	5	("5854088"   "5905275"   "6178190"   "6239033"   "6606333").PN.	US-PGPUB; USPAT; USOCR	AND	OFF	2005/08/04 15:56

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S11 2	3	("4396929"   "4408217"   "4608581").PN.	US-PGPUB; USPAT; USOCR	AND	OFF	2005/08/04 15:58
S11 3	16	("5905275").URPN.	USPAT	AND	OFF	2005/08/04 15:58
S11 4	7	("20010035580"   "20020017653"   "5554877"   "5862167"   "5905275"   "6172382"   "6201265").PN.	US-PGPUB; USPAT; USOCR	AND	OFF	2005/08/04 15:59
S11 5	2	("5343487"   "5416044").PN.	US-PGPUB; USPAT; USOCR	AND	OFF	2005/08/04 16:03
S11 6	3	("5905275"   "6163557"   "6239033").PN.	US-PGPUB; USPAT; USOCR	AND	OFF	2005/08/04 16:28
S11 7	0	"11317546".pn.	US-PGPUB; USPAT; USOCR	AND	OFF	2005/08/04 16:28
S11 8	1	"11317546".pn.	US-PGPUB; USPAT; USOCR; EPO; JPO	AND	OFF	2005/08/04 16:46
S11 9	1	("6060735").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/08/04 16:46
S12 0	1	("4537654").PN.	USPAT; EPO; JPO	OR	OFF	2005/08/24 10:48
S12 1	191	hemt and gallium adj nitride	US-PGPUB; USPAT; EPO; JPO	AND	OFF	2005/08/24 10:49
S12 2	87	hemt and gallium adj nitride and microwave	US-PGPUB; USPAT; EPO; JPO	AND	OFF	2005/08/24 10:58
S12 3	599	gallium adj nitride and microwave	US-PGPUB; USPAT; EPO; JPO	AND	OFF	2005/08/24 14:37
S12 4	25	("4771017"   "4866507"   "4874500"   "4951014"   "4966862"   "5185292"   "5187547"   "5264713"   "5279888"   "5343071"   "5406122"   "5449953"   "5539217"   "5662770"   "5672546"   "5807783"   "5914508"   "5939732"   "5963818"   "6020600"   "6114768"   "6128363"   "6221537"   "6297100"   "6316826").PN.	US-PGPUB; USPAT; USOCR	AND	OFF	2005/08/24 11:10
S12 5	17	"4537654"	US-PGPUB; USPAT; EPO; JPO	AND	OFF	2005/08/24 11:42

## EAST Search History

S12 6	1	("4537654").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/08/24 11:42
S12 7	204	gallium adj nitride and microwave and transition	US-PGPUB; USPAT; EPO; JPO	AND	OFF	2005/08/24 14:37
S12 8	46	gallium adj nitride and microwave and transition adj layer	US-PGPUB; USPAT; EPO; JPO	AND	OFF	2005/08/24 14:41
S12 9	174	gallium adj nitride and high adj frequency and transition adj layer	US-PGPUB; USPAT; EPO; JPO	AND	OFF	2005/08/24 14:46
S13 0	1	("6649287").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/08/24 14:46
S13 1	45	("20010008656"   "20010042503"   "20020020341"   "5192987"   "5239188"   "5290393"   "5296395"   "5389571"   "5393993"   "5442205"   "5523589"   "5633192"   "5679965"   "5739554"   "5741724"   "5760426"   "5786606"   "5815520"   "5821555"   "5838029"   "5838706"   "5874747"   "5880491"   "6039803"   "6045626"   "6051849"   "6060331"   "6064078"   "6069021"   "6100545"   "6120600"   "6121121"   "6139628"   "6146457"   "6156581"   "6177688"   "6201262"   "6255198"   "6261929"   "6261931"   "6265289"   "6329063"   "6380108"   "6403451"   "6426512").PN.	US-PGPUB; USPAT; USOCR	AND	OFF	2005/08/24 15:39
S13 2	1	("6120600").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/08/24 15:57
S13 3	12	(aluminum adj gallium adj nitride) and gallium adj nitride and hemt	USPAT; EPO; JPO	OR	OFF	2005/08/24 16:38
S13 4	1	("5,192,987").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/08/24 16:49
S13 5	70	hemt and (substrate with (silicon adj carbide ) with silicon with sapphire)	US-PGPUB; USPAT; EPO; JPO	AND	OFF	2005/08/24 17:32
S13 6	1379	(257/94,95).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/08/24 17:32



## EAST Search History

S13 7	1955	(257/622,623).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/08/24 17:32
S13 8	2148	(257/98).CCLS.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2005/08/24 17:32
S13 9	0	gan with high adj frequency adj transistors	US-PGPUB; USPAT; EPO; JPO	AND	OFF	2006/05/15 10:44
S14 0	1	("4537654").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/15 10:55
S14 1	1	("6611002").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/15 10:58
S14 2	0	("20010040245.pn.").PN.	US-PGPUB; USPAT; EPO; JPO	OR	OFF	2006/05/15 10:58
S14 3	1	"20010040245".pn.	US-PGPUB; USPAT; EPO; JPO	AND	OFF	2006/05/15 11:01
S14 4	1	"20020074552".pn.	US-PGPUB; USPAT; EPO; JPO	AND	OFF	2006/05/15 11:01
S14 5	1	"20020117681".pn.	US-PGPUB; USPAT; EPO; JPO	AND	OFF	2006/05/15 11:02
S14 6	1	"20030116791".pn.	US-PGPUB; USPAT; EPO; JPO	AND	OFF	2006/05/15 11:02
S14 7	2	"10242584".pn.	US-PGPUB; USPAT; EPO; JPO	AND	OFF	2006/05/15 12:15